

October 27, 1986

TO: Files
FROM: Kathryn M. Mutz, Reclamation Biologist *KMM*
RE: Geokinetics Seep Ridge Project Field Visit, ACT/047/002

On Wednesday, September 17, 1986, Pam Grubaugh-Littig and Kathy Mutz met Mike Lekas at Kamp Kerogen to tour the area and discuss plans for reclaiming the site until it is reactivated sometime in the future. The entire site will be reclaimed except for the structures and areas described in the attached bond estimate. Plans for revegetation work are also outlined in the attachment. All work should be completed during the fall of 1986.

Attachment

0528R-84

cc: P. Grubaugh-Littig
J. Whitehead

GEOKINETICS
BOND ESTIMATE

September 26, 1986

The improvements at the Geokinetics Seep Ridge site that will be retained during the indefinite suspension of operations are:

1. Shop building and shop area,
2. Mobile home park (without the mobile homes),
3. Two water wells - would be transferred to State Lands,
4. 20,000 bbl tank battery,
5. Evaporation ponds #2 and #3,
6. Power lines, power house, and power house yard,
7. Road.

(It is assumed that previously reclaimed areas will be disked and seeded during the fall of 1986.)

Dismantling and Removal:

Shop Building -

120' x 150' x 18' = 108,000 cf @ \$.17/cf = \$ 18,360

Power House -

30' x 40' x 20' = 24,000 cf @ \$.17/cf = \$ 4,080

Tank -

20,000 bbl tank battery	112,300 cf
5 days dismantling	
truck & trailer & driver =	\$537/day
sheet metal worker =	\$265.20/day
laborers =	\$184.40/day (1)
crane =	\$988/day

\$1,974.60/day x 5 days = \$ 9,873

Power Line - (approximately 3,000 feet)

Remove @ \$.80/ft. \$ 2,400

Sub Total \$ 34,713

GEOKINETICS

RECOMMENDED SEED MIX FOR GEOKINETICS:

	#s PLS/acre
Bouteloua gracilis - Blue grama	1
Sporobolus airoides - Alkali sacaton	.5
Oryzopsis hymenoides - Indian ricegrass	2
Agropyron elongatum - Tall wheatgrass	3
Agropyron inerme - Beardless wheatgrass	3
Agropyron smithii - Western wheatgrass	3
Elymus junceus - Russian wildrye	2
Melilotus officinalis - Yellow sweetclover	2
Penstemon palmeri - Palmer penstemon	.5
Atriplex canescens - Fourwing saltbush	3
Atriplex confertifolia - Shadscale	2
Ceratoides lanata - Winterfat	2
Artemisia frigida - Fringed sage	.25

Recommended Procedure for New Revegetation:

1. Grade to round the slopes enough to permit drilling slopes; leaving top relatively flat is fine; okay to leave a berm on top near edge to prevent runoff.
2. Rip shale to loosen.
3. Spread topsoil (see comments below).
4. Fertilize; 60 lb/ac nitrogen and 50 lb/ac phosphorous
5. Disc or use a strong harrow to smooth and incorporate fertilizer.
6. Drill seed with Brillion seeder, if possible. A range drill would be next best.
7. If shrub seeds foul the drill, broadcast them before drilling.

Potential Sources for Brillion:

Vaughn Smith Construction in Soda Springs, Idaho.
Tim Ford - Wildland Seed Company, Logan, Utah.

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Areas with Lots of Weeds: (which is mostly Kochia or Summer cypress)

1. If basically no "good" plants underneath:

Technique:

- a. Disc and drill the same as new areas - the weeds come in as invaders. If good plants get a good start, they will out-compete them.

Location:

- b. Mostly areas that haven't been seeded, e.g., trailer court, road(s), in junk yard, building pads and portions of old retort area.

2. If there are "good" plants underneath:

Technique:

- a. Drill seed over sites without disking first. This will disturb some of the good vegetation but should provide enough new seed to out-compete the weeds.

Location:

- b. These areas are portions of retort #25 and #26, portions of old retort area, and maybe some areas of trailer court or miscellaneous roads.

Topsoil Distribution on Area Not Blasted:

Since there is not much available topsoil, it may be worthwhile to selectively spread it. When ripping this area, note the regions that are solid shale outcrop as opposed to deteriorated shale subsoil. If topsoil is not spread on these rock areas, the Division would not expect vegetation to grow. Topsoil spread deeper over a smaller area should give revegetation a better chance.

KMM/djh
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